

Appendix 21. Fact and Dimension Tables for Chapter 4

Fact Tables

| Case_OOW, Used in Question 1 | | | |
|--|--------|---|--|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | Primary Key | |
| Case-ID | X15 | CSE Case-ID | |
| NPaternity_Establishment_Organization | A25 | Name of organization that collected voluntary affidavit | For voluntary acknowledgement only. Note: this field could be coded to a numeric or alphanumeric value matching the a code in the DCase_Paternity_Organization table |
| DCase_OOWData_Record_ID | N8 | | Foreign key (FK) linking to the DCase_OOWData table. |
| DCase_Paternity_Organization_Record_ID | N8 | | FK linking to the DCase_Paternity_Organization table. |
| DNCP_VS_Record_ID | N8 | | FK linking to the DNCP_VS table |
| DCP_VS_Record_ID | N8 | | FK linking to the DCP_VS table |
| DCase_Data_Record_ID | N8 | | FK linking to the DCase_Data Table |
| DNCPAddress_Record_ID | N8 | | FK linking to the DNCP_Address table |
| DCPAddress_Record_ID | N8 | | FK linking to the DCP_Address table |
| Date_Created | D8 | | |
| Date_Modified | D8 | | |
| Record Length: 228 Bytes X = Alphanumeric; N = Numeric; D = Date; A = Alphabetic | | | |

| Case_History, Used in Questions 2, 3 | | | |
|--|--------|-------------|--|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | Primary Key | |
| Case-ID | X15 | CSE Case-ID | |
| DRegion_Record_IDID | N8 | | FK linking to the DRegion Table |
| DCase_OOWData_Record_ID | N8 | | FK linking to the DCase_OOWData table. |
| DCase_Paternity_Organization_Record_ID | N8 | | FK linking to the DCase_Paternity_Organization table. |
| DNCP_VS_Record_ID | N8 | | FK linking to the DNCP_VS table |
| DCP_VS_Record_ID | N8 | | FK linking to the DCP_VS table |
| DCase_Data_Record_ID | N8 | | FK linking to the DCase_Data Table |
| DNCPAddress_Record_ID | N8 | | FK linking to the DNCP_Address table |
| DCPAddress | N8 | | FK linking to the DCP_Address table |
| Date_Created | D8 | | Date Record Created in SCS-DSS. Serves to place the record historically. If there is a long delay between the time the information is entered in CSES and the time it is entered in SCS-DSS, a second date field should be considered. Format includes hour, minutes, seconds, tenths of second. The size reflects the numerical storage of the date number. |
| Date_Modified | D8 | | Should always be Date_Created. If changed, it may indicate an unauthorized modification of the record. |
| Record Length: 212 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| Case_History is an index that points to current and past case records. | | | |

Dimension Tables

| DCase_OOWData, Used in Questions 1, 2, 3 | | | |
|---|--------|---|--|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | Primary Key | Primary Key |
| Case-ID | X15 | CSE Case-ID | CSE Case-ID |
| Paternity_Establishment_Method | A15 | Method used to obtain paternity establishment | Method used to obtain paternity establishment |
| Date_Paternity_Established | D8 | OCSE: Date paternity acknowledged or established | OCSE: Date paternity acknowledged or established |
| Date_Paternity_Establishment_Filed | D8 | OCSE: Date paternity establishment recorded in CSES | |
| Mothers_Region | A15 | Controlling office | FK linking to the DNCP_VS table |
| Mothers_ZipCode | N9 | | FK linking to the DCP_VS table |
| Date Created | D8 | | FK linking to the DCase_Data Table |
| Date Modified | D8 | | FK linking to the DNCP_Address table |
| DCPAddress_Record_ID | N8 | | FK linking to the DCP_Address table |
| Date_Created | D8 | | |
| Date_Modified | D8 | | |
| Record Length: 91 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| Contains all case data that relates to an OOW birth and paternity establishment. States may add fields. | | | |

| DCase_Paternity_Organization, Used in Questions 1, 2, 3 | | | |
|---|--------|---|--|
| Field Name | Length | Information | Notes |
| NPaternity_Establishment_Organization_Code | X5 | Optional | Code used as primary key (PK)/FK linkage. |
| NPaternity_Establishment_Organization | A25 | Name of organization that collected voluntary affidavit | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_Address_Line_1 | A25 | First line of address for collecting organization | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_Address_Line_2 | A25 | Second line of address for collecting organization | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_City | A18 | Collecting organization city | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_State | A2 | Collecting organization state | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_Zip | N9 | Collecting organization ZIP | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_Region | A15 | Collecting organization region | For voluntary acknowledgement only. |
| NPaternity_Establishment_Organization_Type | A25 | Collecting organization type | For voluntary acknowledgement only. For example: hospital, prenatal care, Head Start, WIC, faith-based, etc. |
| Date Created | D8 | | |
| Date Modified | D8 | | |
| Future | | | Addition of capabilities for diversity issues. |
| Record Length: 183 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| Contains data on organizations that provide voluntary stipulation counseling and collection. States may add fields. | | | |

| DRegion, Used in Questions 2, 3 | | | |
|---|--------|--------------------------------|--|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | PK | |
| NRegion | A25 | Name of region/office | |
| NRegion_Address_Line_1 | A25 | First line of address | |
| NRegion_Address_Line_2 | A25 | Second line of address | |
| NRegion_City | A18 | city | |
| NRegion_State | A2 | state | |
| NRegion_Zip | N9 | ZIP | |
| Nnum_Fte_Authorized | N3 | Full-time employees authorized | |
| Nnum_Fte_Filled | N3 | Full-time employees employed | |
| Nnum_Pte_Authorized | N3 | Part-time employees authorized | |
| Nnum_Pte_Filled | N3 | Part-time employees employed | |
| Nnum_Contractors | N3 | Number of contractors | |
| Date_Created | D8 | | Date Record Created in SCS-DSS. Serves to place the record historically. If there is a long delay between the time the information is entered in CSES and the time it is entered in SCS-DSS, a second date field should be considered. Format includes hour, minutes, seconds, tenths of second. The size reflects the numerical storage of the date number. |
| Date_Modified | D8 | | Should always Date_Created. If changed, it may indicate an unauthorized modification of the record. |
| Record Length: 183 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| Contains information about regional child support offices within the state. In this table, office and region are used interchangeably; use the most accurate naming convention in final design. | | | |

| DCase_Closure, Used in Question 3 | | | |
|--|--------|--------------|--|
| Field Name | Length | Information | Notes |
| Case-ID | X15 | CSE Case-ID | |
| Closure_Reason_1 | A15 | CFR Reason 1 | |
| Closure_Reason_2 | A15 | CFR Reason 2 | |
| Date_Last_Reviewed | D8 | | Value can be updated from data mart. |
| Date_Notification_Sent | D8 | | Automatic or manual entry. |
| Date_Reply_Received | D8 | | Automatic or manual entry. |
| Date_Reply_Required | D8 | | Automatic calculation. |
| Case_Closure_Status | A25 | | Series of state-selected codes should include "Closed" and "Returned to Caseload." |
| Notes | A256 | | Information can be added from the data mart. |
| Date_Created | D8 | | Date Record Created in SCS-DSS. Serves to place the record historically. If there is a long delay between the time the information is entered in CSES and the time it is entered in SCS-DSS, a second date field should be considered. Format includes hour, minutes, seconds, tenths of second. The size reflects the numerical storage of the date number. |
| Date_Modified | D8 | | |
| Record Length: 374 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |

Linked Dimension Tables

| DNCP_VS, Used in Chapter 3 Questions 2, 3, 4, 5, 6 and in Chapter 4 Questions 1, 3 | | | |
|--|--------|--|--|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | PK | |
| Case-ID | X15 | CSE Case-ID | |
| NNCP_Category | N2 | Field use to describe the NCP's category | Examples: (suggested) 0=Current, no arrears 1=Current, Support, TANF Arrears, No non-TANF Arrears 2=Current, Support, TANF Arrears, Non-TANF Arrears 99=In prison for child support evasion |
| Date-of-Birth-NCP | D8 | CSE Date-Of-Birth | CSE has one field name for both the NCP and custodial parent (CP) date of birth. Ownership is determined by record type. Renamed for SCS-DSS. |
| TNCP_Age | N2 | Transformed value derived from Date-of-Birth-NCP | |
| TNCP_Age_Code | N2 | Code derived from TNCP_Age based on state's desired distribution | |
| NNEducation | A12 | New field for NCP's highest level of education; some states may not have data | |
| NCP_Occupation | A105 | OCSE NCP's primary occupation | To further structure this field, the U.S. Department of Labor, Employment and Training Administration (ETA) has an occupation database available at no charge to governments. See O*Net Occupational Listings . Appendix X contains a listing of broad categories and Appendix Y lists individual occupations. |
| TNCP_Occupation_Category | A53 | Based on occupation but more generalized | |
| NN_Occupation Code | X11 | New Department of Labor occupation code | |
| NCP_Employer | X65 | OCSE NCP's Current Employer | See Bincs database products to see how this field can be further structured. Because of the many ways a company name can be entered, this field should be coded and linked to an interactive query box similar to those found in online address books. |
| NCP_Race | N1 | OCSE | |
| Wage-Amount | N12 | CSE: indicates the amount of wages reported by the NCP's first employer | NCP second and third employer wages are not included in this table. It may be useful to combine all current wages into a field called TWage-Amount. This value would need to be normalized to a standard reporting period (weekly, monthly, etc.) |
| Tmonthly_Wage | N12 | Transforms Wage-Amount to a monthly value. If the field TWage-amount is created (see note above), this field will not be required. A different reporting period may be used. | If a reporting period other than monthly is used, the period in Tmonthly-Amount needs to reflect the same period. |
| Tmonthly_Wage_Code | X3 | Transform similar to Amount_Code in DNCP_Data | |
| TNum_Children | N2 | Field derived from OCSE: Name_of_Child(ren)_Identified_in_Order | |
| NTnum_Orders | N2 | This a new and transformational field and may be too difficult to create or the value of information might be minimal. The field is the result of locating and counting all of the orders on an NCP that are in force. | One of difficulties with this field is the use of aliases and different Social Security Numbers. The most this field could accurately offer is the number of orders outstanding on this name and SSN. |
| Date_Created | D8 | Computed value | |
| Date_Modified | D8 | Computed value | |
| Record Length: 381 (est) Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| DNCP_VS contains the vital statistics for the NCP. States may add fields. | | | |

| DCP_VS, Used in Chapter 3 Questions 2, 3, 4, 5, 6 and in Chapter 4 Questions 1, 3 | | | |
|--|--------|--|--|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | PK | |
| Case-ID | A15 | CSE Case-ID | |
| Date-of-Birth-CP | D8 | CSE Date-Of-Birth | CSE has one field name for both the NCP and CP Date of Birth. Ownership is determined by record type. Renamed for DSS operations. |
| TCP_Age | N2 | Transformed value derived from Date-of-Birth-CP | |
| TCP_Age_Code | N2 | Code derived from TNCP_Age based on state's desired distribution | |
| NNEducation | A12 | New field that reflects NCP's highest level of education; some states may not have this data | |
| Occupation | A105 | OCSE CP's primary occupation | To further structure this field, ETA has an occupation database available at no charge to governments. See O*Net Occupational Listings . Appendix X contains a listing of broad categories and Appendix Y lists occupations. |
| TCP_Occupation_Category | A53 | Based on occupation but more generalized | |
| NN_CP_Occupation Code | X11 | New Department of Labor occupation code | |
| CP_Employer | X65 | OCSE CP's Current Employer | See Bincs database products to see how this field can be further structured. Because of the many ways a company name can be entered, this field should be coded and linked to an interactive query box similar to those found in online address books. |
| CP_Race | N1 | OCSE | |
| Wage_Amount | N12 | CSE: indicates the amount of wages reported by the CP's first employer | |
| Tmonthly_Wage | N12 | Transforms Wage-Amount to a monthly value. A different reporting period may be used. | If a reporting period other than monthly is used, the period in Tmonthly-Amount needs to reflect the same period. |
| Tmonthly_Wage_Code | X3 | Transform similar to Amount_Code in DNCP_Data. | |
| Tnum_Children | N2 | Field derived from OCSE: Name_of_Child(ren)_Identified_in_Order | |
| Participant_Status | A17 | OCSE: assistance, never assisted, former assistance | |
| Date_Created | D8 | Computed value | |
| Date_Modified | D8 | Computed value | |
| Record Length: 381 (est) Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| DCP_VS contains the vital statistics for the CP. States may add fields. | | | |

| DCase_Data, Used in Chapter 3 Questions 2, 3, 4, 5, 6 and in Chapter 4 Question 3 | | | |
|---|--------|---|---|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | PK | |
| Case-ID | X15 | CSE Case-ID | |
| Case-Type | A19 | CSE: indicates the type of child support case | TANF, Foster Care Arrears Only, Foster Care, Medical Care, Non-TANF, TANF Arrears Only, Former Assistance, Never Assisted, Non-IV-D |
| Case_Contact_Person | A24 | CSE: assumed to be case worker | |
| NN_Office | A24 | New: office having administrative control of case | |
| NN_Judge_Administrator | A24 | New: judge or administrator who established the order | |
| Date_Application_Received_by_IV-D_Agency | D8 | OCSE | |
| Date_Case_Established | D8 | OCSE | |
| Date_Paternity_Established | D8 | OCSE | |
| Date_of_Locate_Attempt | D8 | OCSE | |
| Date_Paternity_Established | D8 | OCSE | |
| Date_of_Locate_Attempt | D8 | OCSE | |
| Date_NCParent_Located | D8 | OCSE | |
| Date_of_Order | D8 | OCSE | |
| Order-Effective-Date | D8 | CSE | |
| NN_Date_First_Payment | N4 | New: date first payment for this case received | This is for the case, not the current order. |
| NN_Num_Days_Established | N4 | New: number of days between application received and case establishment | |
| NN_Num_Days_Paternity | N4 | New: number of days between application received and paternity establishment | |
| NN_Num_Days_Locate | N4 | New: number of days between application received and NCP located | |
| NN_Num_Days_Order | N4 | New: number of days between application received and order established | |
| NN_Num_Days_Payment1 | N4 | New: number of days between application received and receipt of first payment | |
| Date_Created | D8 | Computed value | |
| Date_Modified | D8 | Computed value | |
| Record Length: 216 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| DCase_Data contains all case-related data. States may add fields. | | | |
| Important Note: Data in an SCS-DSS is relatively static so several calculations have been included in the record such as NN_Num_Days_Payment1 to improve system performance to the end user. These calculations are performed and inserted during the ETL process.the vital statistics for the CP. | | | |

| DRef_date, Used in Chapter 3 Questions 2, 3, 4, 5, 6 and in Chapter 4 Questions 1, 2, 3 | | | |
|---|--------|--|------------|
| Field Name | Length | Information | Notes |
| Date | D8 | Date within range of table, usually 10 years | 06/14/2002 |
| Year | N4 | Year of today's date | 2002 |
| Fiscal_Year_Quarter | X9 | Fiscal year quarter of today's date | 3Q FY2002 |
| Calendar_Year_Quarter | X9 | Calendar year quarter of today's date | 2Q CY2002 |
| Month | A9 | Month name | June |
| Day | A9 | Day of week | Friday |
| Record Length: 48 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic | | | |
| DRef_date is a reference table used in all CSE data marts to express a given date value in a number of related ways. There may be a temptation to calculate all of these values on an ad-hoc basis. Don't. As was pointed out earlier, for a 10-year period, the size of this table will be less than a megabyte. Consider the following question: How many cases were established on a particular day of the week? With a date reference table the answer will be returned almost immediately. If the day of week value has to be calculated for each case establishment date in the data mart, the response will take significantly longer. To restate a point: building a data mart is not about saving disk space or devising eloquent algorithms. It's about providing information to the end user as rapidly as possible. | | | |

| DNCP_Address, Used in Chapter 3 Questions 5, 6 and in Chapter 4 Questions 2, 3 | | | |
|--|--------|---|-----------------------------------|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | | |
| Case_ID | X15 | | |
| NAdd_Value | X9 | Alphanumeric portion of address | 123, 322-B etc |
| NPlace_name | X32 | Name of street: road, boulevard, court, etc. | |
| NVenue_type | X15 | Street, road, boulevard, court etc | |
| NDomicile_Type | X15 | Apartment, house, shelter, dormitory etc. | |
| Ndom_Sub_Ref | X9 | Apartment number, room number, unit number, etc | |
| Ncity | X24 | | |
| Nstate | A2 | | |
| Nzip | N9 | ZIP+4 | |
| Nsubdivision | X32 | Apartment name, subdivision name, etc. | King's Arms, Friendly Acres, etc. |
| Ncounty | X32 | | |
| Ncong_District | X3 | | |
| Npopular_Name1 | X32 | Popular or street name for the area | The Swamp |
| Npopular_Name2 | X32 | Second popular or street name for the area | Fort Apache |
| NAddress_Type | X32 | Known good, current, suspected, last known, etc | |
| Date_Created | D8 | Computer generated | |
| Date_Modified | D8 | Computer generated | |
| Record Length: 332 Bytes X = Alphanumeric, N = Numeric, D = Date, A = Alphabetic, B = Byte | | | |
| DNCP_Address decomposes the NCP's address information to a very discrete level. | | | |

| DCP_Address, Used in Questions 5, 6 | | | |
|---|--------|--|---|
| Field Name | Length | Information | Notes |
| Record_ID | N8 | | |
| Case_ID | X15 | | |
| NAdd_Value | X9 | Alphanumeric portion of address | 123, 322-B, etc. |
| NPlace_name | X32 | Name of street, road, boulevard, court, etc. | |
| NVenue_type | X15 | Street, road, boulevard, court, etc. | |
| NDomicile_Type | X15 | Apartment, house, shelter, dormitory, etc. | |
| Ndom_Sub_Ref | X9 | Apartment number, room number, unit number, etc. | |
| Ncity | X24 | | |
| Nstate | A2 | | |
| Nzip | N9 | ZIP+4 | |
| Nsubdivision | X32 | Apartment name, subdivision name, etc. | King's Arms, Friendly Acres, etc. |
| Ncounty | X32 | | |
| Ncong_District | X3 | | |
| Npopular_Name1 | X32 | Popular or street name for the area | The Swamp |
| Npopular_Name2 | X32 | Second popular or street name for the area | Fort Apache |
| NCP_SSN | N9 | SSN | |
| NNCP_SSN | N9 | NCP SSN | |
| NAddress_Type | X32 | Known good, current, last known, etc. | |
| NVI_Verified | A3 | Violence indicator (VI) has been verified, and this record is authorized | Field should be validated nightly. Value can be applied retroactively. That is, if earlier records did not contain a positive VI and the latest does, all previous records are removed. |
| Date_Created | D8 | Computed value | |
| Date_Modified | D8 | Computed value | Should never be more than 24 hours old. |
| Record Length: 349 Bytes | | | |
| DCP_Address decomposes the CP's address information to a very discrete level. | | | |